

Material Safety Data Sheet

Form Number 89-250-819/B

SECTION 1 - PRODUCT IDENTIFICATION AND USE			
PRODUCT IDENTIFIER ARCAIR® SEA-CUT® ELECTRODE			CATALOG NUMBERS 42-059-007
PRODUCT USE Underwater Arc Metal Cutting			
MANUFACTURERS NAME TWECO Products, Inc.		DISTRIBUTOR NAME	
STREET ADDRESS 4200 West Harry St. P.O. Box 12250		STREET ADDRESS	
CITY Wichita	STATE Kansas	CITY	STATE
ZIP CODE 67277	EMERGENCY PHONE # (316) 648-5129 Chem Trec 800-424-9300	ZIP CODE	EMERGENCY PHONE #
PREPARED BY Dennis Wilson	PHONE NUMBER (316) 942-1421	DATE PREPARED July 1989	DATE REVISED January 1996

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%/RANGE	CAS NUMBER	OSHA PEL	ACGIH TLV
Base Metal: Steel	96+	Not Assigned	N.A.P.	5mg/M ³ Fume
Plasticized Vinyl	<5	Compound	N.A.P.	N.A.P.

When placed into underwater service, an electric arc is formed as in welding, generating intense heat, ultra-violet (UV) rays, fumes and gases as in conventional welding. When used as intended for underwater welding, exposure to UV rays and electrical shock potential are the most likely sources of risk to health. When not in service, the electrodes pose no significant hazard.

SECTION 313. SUPPLIER INFORMATION		
THIS PRODUCT DOES <input type="checkbox"/> DOES NOT <input checked="" type="checkbox"/> CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.		
CAS NUMBER	CHEMICAL NAME	%

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE Solid	ODOR AND APPEARANCE Blue plastic-coated steel tube, no odor.			
VAPOR PRESSURE mm Hg) N.A.P.	VAPOR DENSITY (air = 1) N.A.P.	EVAPORATION RATE N.A.P.	BOILING POINT (°F/C) N.A.P.	FREEZING POINT (°F/C) N.A.P.
pH N.A.P.	SPECIFIC GRAVITY N.A.P.	SOLUBILITY Insoluble		

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	IF YES, MEANS OF EXTINCTION Does not readily burn			
FLASHPOINT (°F/C) AND METHOD N.A.P.	FLAMMABLE LIMIT N.A.P.	LEL N.A.P.	UEL N.A.P.	
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

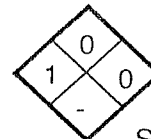
N.A.P.: NON APPLICABLE; N.A.V.: NOT AVAILABLE; N.E.S.T.: NOT ESTABLISHED

N.F.P.A. RATING SYSTEM: 0 - INSIGNIFICANT; 1 - SLIGHT; 2 - MODERATE; 3 - HIGH; 4 - EXTREME

WMIS CLASSIFICATION: **CLASS "D"**
DIVISION 2
SUB-DIVISION "G"

Flammability

Health



Reactivity

Special Information

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY Yes No IF NO, CONDITIONS TO AVOID N.AP.

INCOMPATIBILITY WITH OTHER SUBSTANCES Yes No IF YES, WHICH ONES? None known

HAZARDOUS POLYMERIZATION Will Occur Will Not Occur CONDITIONS TO AVOID N.AP.

HAZARDOUS DECOMPOSITION PRODUCTS Iron oxide fumes are generated during arc operations, but pose no problems for the diver/welder.

SECTION 6 - HEALTH HAZARD DATA

ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION INGESTION U.V. EXPOSURE

EFFECTS OF ACUTE/CHRONIC EXPOSURE TO PRODUCT Exposure to UV radiation from the cutting arc can result in keratoconjunctivitis, also known as welders flash.

CARCINOGENICITY Not Listed

SIGNS AND SYMPTOMS OF EXPOSURE Inflammation, blurred vision and headache

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE N.AP.

EMERGENCY AND FIRST AID PROCEDURES Seek medical attention, preferably an eye specialist.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

LEAK AND SPILL PROCEDURE Pick up spent ends when cool

WASTE DISPOSAL METHOD Solid landfill if local regulations allow.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Prevent premature rusting

OTHER PRECAUTIONS CUTTING WARNINGS: CAUTION! ELECTRIC SHOCK CAN KILL. ARC RAYS CAN INJURE EYES. Train the operator not to touch electrical parts. Wear an underwater suit.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE)

For underwater use only

GLOVES (SPECIFY)

Butyl Rubber

RESPIRATOR (SPECIFY)

As required for underwater operations

EYE (SPECIFY)

Filter lens for U.V. protection, #12 preferred

FOOTWEAR (SPECIFY)

N.AP.

CLOTHING (SPECIFY)

Suit constructed of rubber to minimize likelihood for shock

OTHER (SPECIFY)

N.AP.

VENTILATION:

LOCAL EXHAUST

SPECIAL

As required for underwater operations

MECHANICAL

As required for underwater operations

OTHER

WORK/HYGIENIC PRACTICES

Top personnel should avoid surfacing fumes

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES. THIS IS NEITHER AN EXPRESSED NOR IMPLIED PRODUCT SPECIFICATION. RECOMMENDED HANDLING PROCEDURES AND HYGIENE ARE BELIEVED TO BE ACCURATE, HOWEVER, THESE RECOMMENDATIONS SHOULD BE REVIEWED IN THE SPECIFIC CONTEXT OF INTENDED USE AND DETERMINED APPROPRIATE BY THE USER.